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| U.S. Department of Commerce, Patent and Trademark Office (PTO Form 1449 modified) | | Docket No. APPM/5765 | Serial No. 10/026,854 |
| INFORMATION DISCLOSURE STATEMENT BY APPLICANT | | Applicant Li, et al. | Confirmation No.: Unknown |
| (Use several sheets if necessary) | | Filing Date December 20, 2001 | Group 1765 |
| Examiner | | | |

U.S. Patent Documents

| *Examiner Initial | | Document Number | Issue Date | Applicant(s) Name | Class | Subclass | Filing Date If Appropriate |
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| AS | A1 | 4,793,895 | 12/27/1988 | Kaanta, et al. | 156 | 627 | 01/25/1988 |
| AS | A2 | 4,934,102 | 06/19/1990 | Leach, et al. | 51 | 50 R | 10/04/1988 |
| AS | A3 | 5,217,586 | 06/08/1993 | Datta, et al. | 204 | 129.6 | 01/09/1992 |
| AS | A4 | 5,225,034 | 07/06/1993 | Yu, et al. | 156 | 636 | 06/04/1992 |
| AS | A5 | 5,534,106 | 07/09/1996 | Cote, et al. | 156 | 636.1 | 07/26/1994 |
| AS | A6 | 5,543,032 | 08/06/1996 | Datta, et al. | 205 | 670 | 06/02/1995 |
| AS | A7 | 5,567,300 | 10/22/1996 | Datta, et al. | 205 | 652 | 09/02/1994 |
| AS | A8 | 5,575,706 | 11/19/1996 | Tsai, et al. | 451 | 41 | 01/11/1996 |
| AS | A9 | 5,804,507 | 09/08/1998 | Perlov, et al. | 438 | 692 | 10/27/1995 |
| AS | A10 | 5,807,165 | 09/15/1998 | Uzoh, et al. | 451 | 41 | 03/26/1997 |
| AS | A11 | 5,846,882 | 12/08/1998 | Birang | 438 | 692 | 10/03/1996 |
| AS | A12 | 5,871,392 | 02/16/1999 | Meikle, et al. | 451 | 56 | 06/13/1996 |
| AS | A13 | 5,911,619 | 06/15/1999 | Uzoh, et al. | 451 | 5 | 03/26/1997 |
| AS | A14 | 5,951,380 | 09/14/1999 | Kim | 451 | 65 | 12/19/1997 |

Foreign Patent Documents

| *Examiner Initial | | Document Number | Date | Country | Class | Subclass | Translation | |
|-------------------|----|-----------------|------------|---------|-------|----------|-------------------------------------|--------------------------|
| | | | | | | | YES | NO |
| AS | B1 | P2001-077,117 | 03/23/2001 | JP | H01L | 21/3205 | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| AS | B2 | 98/49723 | 11/05/1998 | WO | H01L | 21/321 | <input type="checkbox"/> | <input type="checkbox"/> |
| | | | | | | | <input type="checkbox"/> | <input type="checkbox"/> |

OTHER ART

| *Examiner Initial | | Including Author, Title, Date, Pertinent Pages, Etc. |
|-------------------|----|---|
| AS | C1 | Nogami, T. "An Innovation to Integrate Porous Low-K Materials and Copper", Interconnect Japan 2001, Honeywell Seminar, December 6, 2001, pp. 1-12 |
| | | |

Examiner *Alvin J. Grant* Date Considered *3/11/04*

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with your communication to applicant.

| | | | |
|--|--|-------------------|-------------------|
| U.S. Department of Commerce, Patent and Trademark Office | | Docket No. | Serial No. |
| (PTO Form 1449 modified) | | APPM/5765 | 10/026,854 |
| INFORMATION DISCLOSURE STATEMENT BY APPLICANT | | Applicant | Confirmation No.: |
| | | Li, et al. | Unknown |
| (Use several sheets if necessary) | | Filing Date | Group |
| Examiner <i>Unknown</i> | | December 20, 2001 | 1765 |

U.S. Patent Documents

| *Examiner Initial | | Document Number | Issue Date | Applicant(s) Name | Class | Subclass | Filing Date If Appropriate |
|-------------------|-----|-----------------|------------|-------------------|-------|----------|----------------------------|
| <i>AS</i> | A15 | 5,944,583 | 11/20/1999 | Cruz | 451 | 41 | 03/17/1997 |
| <i>AS</i> | A16 | 6,019,666 | 02/01/2000 | Roberts, et al. | 451 | 36 | 05/08/1998 |
| <i>AS</i> | A17 | 6,024,630 | 02/15/2000 | Shendon, et al. | 451 | 41 | 06/09/1995 |
| <i>AS</i> | A18 | 6,033,293 | 03/07/2000 | Crevasse, et al. | 451 | 494 | 10/08/1997 |
| <i>AS</i> | A19 | 6,036,586 | 03/14/2000 | Ward | 451 | 287 | 07/29/1998 |
| <i>AS</i> | A20 | 6,066,030 | 05/23/2000 | Uzoh | 451 | 41 | 03/04/1999 |
| <i>AS</i> | A21 | 6,103,096 | 08/15/2000 | Datta, et al. | 205 | 686 | 11/12/1997 |
| <i>AS</i> | A22 | 6,176,992 | 01/23/2001 | Talieh | 205 | 87 | 12/01/1998 |
| <i>AS</i> | A23 | 6,234,870 | 05/22/2001 | Uzoh, et al. | 451 | 8 | 08/24/1999 |
| <i>AS</i> | A24 | 6,248,222 | 06/19/2001 | Wang | 204 | 297.09 | 09/07/1999 |
| <i>AS</i> | A25 | 6,258,223 | 07/10/2002 | Cheung, et al. | 204 | 242 | 07/09/1999 |
| <i>AS</i> | A26 | 6,351,422 | 02/26/2002 | Rohr, et al. | 365 | 203 | 03/28/2001 |
| <i>AS</i> | A27 | 2001/0024878 | 09/27/2001 | Nakamura | 438 | 691 | 03/26/2001 |
| <i>AS</i> | A28 | 2001/0042690 | 11/22/2001 | Talieh | 205 | 118 | 12/14/2000 |

Foreign Patent Documents

| *Examiner Initial | | Document Number | Date | Country | Class | Subclass | Translation | |
|-------------------|--|-----------------|------|---------|-------|----------|--------------------------|--------------------------|
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OTHER ART

| *Examiner Initial | | Including Author, Title, Date, Pertinent Pages, Etc. |
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Examiner

Chun J. Zhang

Date Considered

3/11/04

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609, Draw line through citation if not in conformance and not considered. Include copy of this form with your communication to applicant.

| | | | |
|--|--|-------------------------------------|--------------------------|
| U.S. Department of Commerce, Patent and Trademark Office (PTO Form 1449 modified) | | Docket No. AMAT/5765/CMP/CMP/RKK | Serial No. 10/026,854 |
| SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BY APPLICANT | | Applicant Li, et al. | Confirmation No. 1816 |
| (Use several sheets if necessary) | | Filing Date December 20, 2001 | Group 1765 |
| Examiner Unknown | | | |

U.S. Patent Documents

| *Examiner Initial | | Document Number | Issue Date | Applicant(s) Name | Class | Subclass | Filing Date If Appropriate |
|-------------------|-----|-----------------|------------|-------------------|-------|----------|----------------------------|
| <i>AS</i> | A1 | 6,159,088 | 12/12/2000 | Nakajima | 451 | 527 | 01/29/1999 |
| <i>AS</i> | A2 | 5,990,012 | 11/23/1999 | Robinson, et al. | 438 | 692 | 01/27/1998 |
| <i>AS</i> | A3 | 5,899,799 | 05/04/1999 | Tjaden, et al. | 451 | 287 | 01/19/1996 |
| <i>AS</i> | A4 | 5,527,215 | 06/18/1996 | Rubino, et al. | 451 | 527 | 06/10/1992 |
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| | A10 | | | | | | |
| | A11 | | | | | | |
| | A12 | | | | | | |
| | A13 | | | | | | |

Foreign Patent Documents

| *Examiner Initial | | Document Number | Date | Country | Class | Subclass | Translation | |
|-------------------|----|-----------------|------------|-----------------------|-------|----------|-------------------------------------|-------------------------------------|
| | | | | | | | YES | NO |
| | B1 | 06047678 | 02/22/1994 | JP (English Abstract) | B24D | 11/06 | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| | B2 | 11216663 | 08/10/1999 | JP (English Abstract) | B24B | 37/00 | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| | B3 | 00/71297 | 11/30/2000 | WO | B24B | 37/04 | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| | B4 | | | | | | <input type="checkbox"/> | <input type="checkbox"/> |

OTHER ART

| *Examiner Initial | | Including Author, Title, Date, Pertinent Pages, Etc. |
|-------------------|----|--|
| | C1 | European Search Report for Application No. 00311062.4 dated 08/22/2003 (AMAT/3778EP) |
| | C2 | |

Examiner

Alvin J. Grant

Date Considered

3/6/04

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| <i>AL</i> | A1 | 5,136,817 | 08/11/1992 | Tabata, et al | 51 | 165.71 | 02/28/1991 |
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| <i>AL</i> | A3 | 6,020,264 | 02/01/2000 | Lustig, et al. | 438 | 692 | 01/31/1997 |
| <i>AL</i> | A4 | 6,056,851 | 05/02/2000 | Hsieh, et al. | 156 | 345 | 08/14/1998 |
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| | A11 | | | | | | |
| | A12 | | | | | | |
| | A13 | | | | | | |

Foreign Patent Documents

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|-------------------|----|-----------------|------------|---------|-------|----------|-------------------------------------|--------------------------|
| | | | | | | | YES | NO |
| <i>BS</i> | B1 | 0 325 753 | 12/13/1988 | EP | H01L | 21/00 | <input type="checkbox"/> | <input type="checkbox"/> |
| <i>BS</i> | B2 | 0 455 455 | 04/29/1991 | EP | B23Q | 15/007 | <input type="checkbox"/> | <input type="checkbox"/> |
| <i>BS</i> | B3 | 11042554 | 02/16/1999 | JP | B24B | 37/04 | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <i>BS</i> | B4 | 01 49452 | 07/27/2001 | WO | B24B | 37/04 | <input type="checkbox"/> | <input type="checkbox"/> |
| <i>BS</i> | B5 | 02 064314 | 08/22/2002 | WO | B24B | 37/04 | <input type="checkbox"/> | <input type="checkbox"/> |

OTHER ART

| *Examiner Initial | | Including Author, Title, Date, Pertinent Pages, Etc. |
|-------------------|----|--|
| <i>BS</i> | C1 | International Search Report for PCT/US 02/11009 dated February 6, 2003 |
| | C2 | |
| | C3 | |

Examiner

Chen J. Grant

Date Considered

3/6/04

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PATENT
Atty. Dkt. APPM/5765/CMP/CMP/RKK

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:
Li, et al.

Serial No.: 10/026,854

Confirmation No.: Unknown

Filed: December 20, 2001

For: Articles for Polishing
Semiconductor Substrates

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Group Art Unit: Unknown

Examiner: Unknown

Assistant Commissioner for Patents
Washington, D.C. 20231

CERTIFICATE OF MAILING

37 CFR 1.8

I hereby certify that this correspondence is being deposited on May 1st, 2002 with the United States Postal Service as First Class Mail in an envelope addressed to: Assistant Commissioner for Patents, Washington, D.C. 20231.

5/20/02

Date _____

Unit 2

Signature _____

Dear Sir:

INFORMATION DISCLOSURE STATEMENT

The Applicants, and the Attorney who signs below on the basis of the information supplied by the inventor and the information in his file, submit herewith patents, publications, or other information of which they are aware, which may be material to the examination of this application and in respect of which there may be a duty to disclose in accordance with 37 CFR § 1.56.

While the information submitted in this Information Disclosure Statement may be material pursuant to 37 CFR § 1.56, it is not intended to constitute an admission that any patent, publication, or other information referred to therein is prior art for this invention unless specifically designated as such.

In accordance with 37 CFR § 1.97, this Information Disclosure Statement is not to be construed as a representation that a search has been made or that no other possibly material information as defined under 37 CFR § 1.56(a) exists.

The patents and/or publications submitted herewith are set forth on the attached
Form PTO-1449.

Respectfully submitted,



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Houston, TX 77056
Telephone: (713) 623-4844
Facsimile: (713) 623-4846
Attorney for Applicant(s)

| | | | |
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| AS | A2 | 4,934,102 | 06/19/1990 | Leach, et al. | 51 | 50 R | 10/04/1988 |
| AS | A3 | 5,217,586 | 06/08/1993 | Datta, et al. | 204 | 129.6 | 01/09/1992 |
| AS | A4 | 5,225,034 | 07/06/1993 | Yu, et al. | 156 | 636 | 06/04/1992 |
| AS | A5 | 5,534,106 | 07/09/1996 | Cote, et al. | 156 | 636.1 | 07/26/1994 |
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| AS | A11 | 5,846,882 | 12/08/1998 | Birang | 438 | 692 | 10/03/1996 |
| AS | A12 | 5,871,392 | 02/16/1999 | Meikle, et al. | 451 | 56 | 06/13/1996 |
| AS | A13 | 5,911,619 | 06/15/1999 | Uzoh, et al. | 451 | 5 | 03/26/1997 |
| AS | A14 | 5,951,380 | 09/14/1999 | Kim | 451 | 65 | 12/19/1997 |

Foreign Patent Documents

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|-------------------|----|-----------------|------------|---------|-------|----------|-------------------------------------|--------------------------|
| | | | | | | | YES | NO |
| AS | B1 | P2001-077,117 | 03/23/2001 | JP | H01L | 21/3205 | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| AS | B2 | 98/49723 | 11/05/1998 | WO | H01L | 21/321 | <input type="checkbox"/> | <input type="checkbox"/> |
| | | | | | | | <input type="checkbox"/> | <input type="checkbox"/> |

OTHER ART

| *Examiner Initial | | Including Author, Title, Date, Pertinent Pages, Etc. |
|-------------------|----|---|
| AS | C1 | Nogami, T. "An Innovation to Integrate Porous Low-K Materials and Copper", Interconnect Japan 2001, Honeywell Seminar, December 6, 2001, pp. 1-12 |
| | | |

Examiner *Alvin J. Grant* Date Considered *3/11/02*

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| (Use several sheets if necessary) | | Filing Date December 20, 2001 | Group 1765 |
| Examiner <i>Unknown</i> | | | |

U.S. Patent Documents

| *Examiner Initial | | Document Number | Issue Date | Applicant(s) Name | Class | Subclass | Filing Date If Appropriate |
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| <i>AS</i> | A15 | 5,944,583 | 11/20/1999 | Cruz | 451 | 41 | 03/17/1997 |
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| <i>AS</i> | A17 | 6,024,630 | 02/15/2000 | Shendon, et al. | 451 | 41 | 06/09/1995 |
| <i>AS</i> | A18 | 6,033,293 | 03/07/2000 | Crevasse, et al. | 451 | 494 | 10/08/1997 |
| <i>AS</i> | A19 | 6,036,586 | 03/14/2000 | Ward | 451 | 287 | 07/29/1998 |
| <i>AS</i> | A20 | 6,066,030 | 05/23/2000 | Uzoh | 451 | 41 | 03/04/1999 |
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| <i>AS</i> | A27 | 2001/0024878 | 09/27/2001 | Nakamura | 438 | 691 | 03/26/2001 |
| <i>AS</i> | A28 | 2001/0042690 | 11/22/2001 | Talieh | 205 | 118 | 12/14/2000 |

Foreign Patent Documents

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|-------------------|--|-----------------|------|---------|-------|----------|--------------------------|--------------------------|
| | | | | | | | YES | NO |
| | | | | | | | <input type="checkbox"/> | <input type="checkbox"/> |
| | | | | | | | <input type="checkbox"/> | <input type="checkbox"/> |

OTHER ART

| *Examiner Initial | | Including Author, Title, Date, Pertinent Pages, Etc. |
|-------------------|--|--|
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Examiner *Ali J. Farooq* Date Considered *3/11/04*

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609, Draw line through citation if not in conformance and not considered. Include copy of this form with your communication to applicant.



10/20/03

1702

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:
Li, et al.

Serial No.: 10/026,854

Confirmation No.: 1816

Filed: December 20, 2001

For: Articles for Polishing
Semiconductor Substrates

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Group Art Unit: 1765

Examiner: Unknown

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

| CERTIFICATE OF MAILING 37 CFR 1.8 | |
|--|---------------------------|
| I hereby certify that this correspondence is being deposited on October 2, 2003 with the United States Postal Service as First Class Mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450. | |
| <u>10/02/03</u> Date | <u>B. E.</u> Signature |

Dear Sir:

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

The Applicants, and the Attorney who signs below on the basis of the information supplied by the inventor and the information in his file, submit herewith patents, publications, or other information of which they are aware, which may be material to the examination of this application and in respect of which there may be a duty to disclose in accordance with 37 CFR § 1.56.

While the information submitted in this Supplemental Information Disclosure Statement may be material pursuant to 37 CFR § 1.56, it is not intended to constitute an admission that any patent, publication, or other information referred to therein is prior art for this invention unless specifically designated as such.

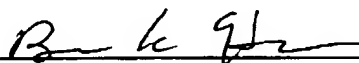
In accordance with 37 CFR § 1.97, this Supplemental Information Disclosure Statement is not to be construed as a representation that a search has been made or that no other possibly material information as defined under 37 CFR § 1.56(a) exists.

The patents and/or publications submitted herewith are set forth on the attached Form PTO-1449.

Applicants certify that all references submitted with this disclosure were first cited in a communication from a foreign patent office dated August 22, 2003, which communication is enclosed, not more than three months prior to the filing of this Supplemental Information Disclosure Statement.

If the sum of \$180.00 is due under 37 CFR § 1.17(p) pursuant to § 1.97, the Commissioner is hereby authorized to charge this fee, and any other fee necessary to make this submission timely, to the Deposit Account No. 20-0782/AMAT/5765/BKH.

Respectfully submitted,



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Attorney for Applicant(s)



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:
Li, et al.

Serial No.: 10/026,854

Confirmation No.: 1816

Filed: December 20, 2001

For: Articles for Polishing
Semiconductor Substrates

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Group Art Unit: 1765

Examiner: Unknown

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Commissioner for Patents
Washington, D.C. 20231

Dear Sir:

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| CERTIFICATE OF MAILING 37 CFR 1.8 | |
| I hereby certify that this correspondence is being deposited on March 27, 2003 with the United States Postal Service as First Class Mail in an envelope addressed to: Commissioner for Patents, Washington, D.C. 20231. | |
| 03/27/03 Date | B. 1/6 Signature |

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

The Applicants, and the Attorney who signs below on the basis of the information supplied by the inventor and the information in his file, submit herewith patents, publications, or other information of which they are aware, which may be material to the examination of this application and in respect of which there may be a duty to disclose in accordance with 37 CFR § 1.56.

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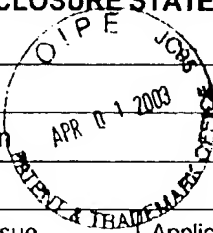
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Respectfully submitted,



Brian K. Hrna
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| U.S. Department of Commerce, Patent and Trademark Office (PTO Form 1449 modified) | | Doc No. AMAT/5765/CMP/C MP/RKK | | Serial No. 10/026,854 | | | | |
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| SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BY APPLICANT | | Applicant Li, et al. | | Confirmation No. 1816 | | | | |
| (Use several sheets if necessary) | | Filing Date December 20, 2001 | | Group 1765 | | | | |
| Examiner Unknown | |  | | | | | | |
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| | | | | | | | YES | NO |
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| <i>AL</i> | B5 | 02 064314 | 08/22/2002 | WO | B24B | 37/04 | <input type="checkbox"/> | <input type="checkbox"/> |
| OTHER ART | | | | | | | | |
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| Examiner <i>Alvin J. Grant</i> | | | | Date Considered <i>3/6/04</i> | | | | |
| *EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with your communication to applicant. | | | | | | | | |

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| | B4 | | | | | | <input type="checkbox"/> | <input type="checkbox"/> |

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Date Considered 3/6/04

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